

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

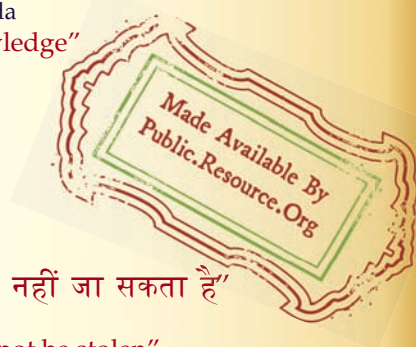
IS 7040 (1973): Smith's Anvil Cutters [PGD 6: Earth, Metal And Wood Working Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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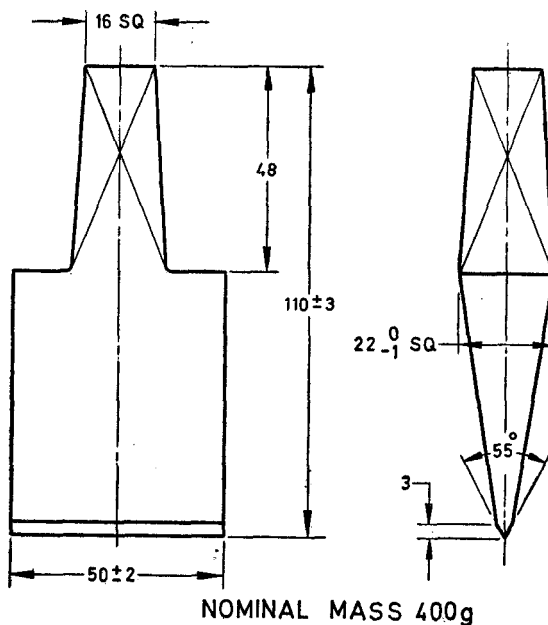
Indian Standard
**SPECIFICATION FOR
SMITH'S ANVIL CUTTERS**

1. Scope — Covers the requirements for flat and round smith's anvil cutters.

2. Dimensions

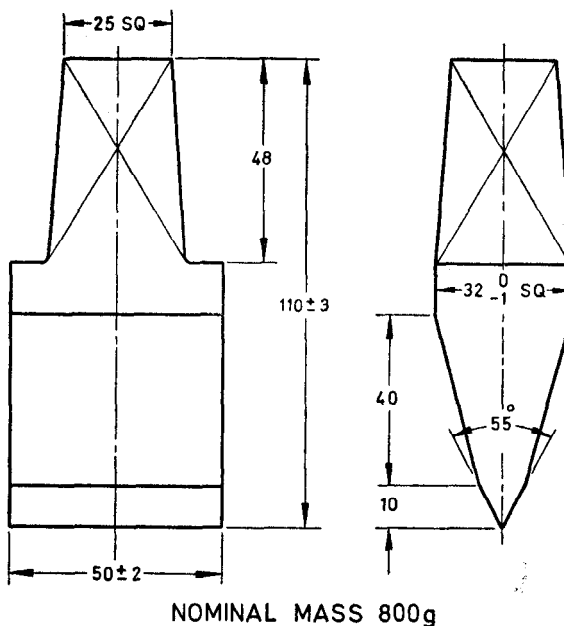
2.1 Flat Anvil Cutters (Type A)

All dimensions in millimetres.



2.2 Flat Anvil Cutters (Type B)

All dimensions in millimetres.



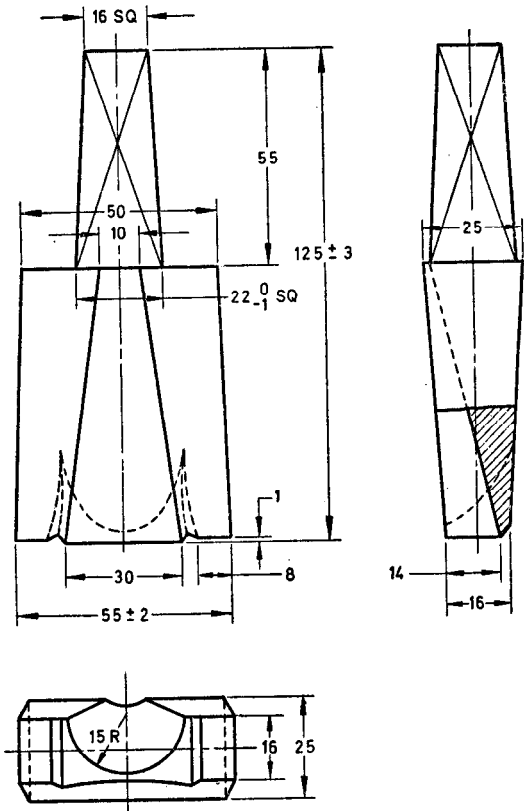
Adopted 30 October 1973

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2.3 Half Round Anvil Cutters (Type C)

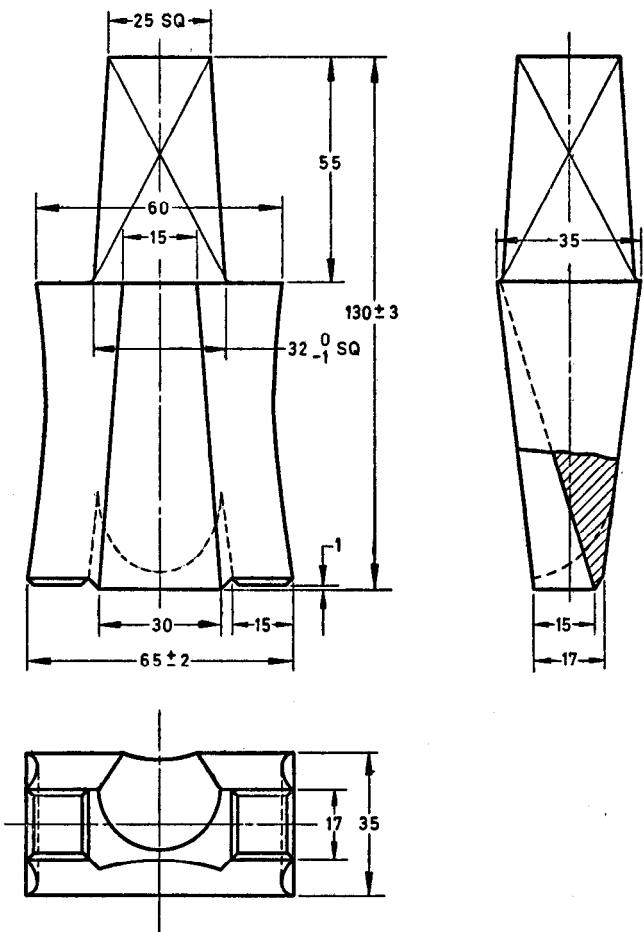
All dimensions in millimetres.



NOMINAL MASS 600g

2.4 Half Round Anvil Cutters (Type D)

All dimensions in millimetres.



NOMINAL MASS 1200g

2.5 The tolerance on the untoleranced dimensions shall be in accordance with the usual manufacturing practice. The tolerances on the weight shall be $\pm \frac{5}{2}$ percent.

3. Material — Suitable steels meeting with the requirements laid down in 4 and 6.

Examples:

T65 and T75 of IS : 1570-1961 'Schedules for wrought steels for general engineering purposes' with a maximum sulphur and phosphorus content of 0.05 percent each.

4. Hardness — The smith's anvil cutters shall have hardness of 550 to 650 HV [see IS : 1501-1968 Method for Vickers hardness test for steel (*first revision*)] up to 20 mm from the cutting edge. Thereafter, the hardness shall gradually decrease to 250 to 350 HV at the shank.

5. Manufacture, Workmanship and Finish — The smith's anvil cutters shall be free from cracks, pits, flaws, seams, burrs and other defects. All sharp corners except the cutting edge shall be suitably rounded. The working faces shall be ground and polished to a bright finish.

6. Tests

6.1 A mild steel bar of 25 mm diameter shall be kept over the cutter after fitting the cutter in an anvil and the bar given 10 full blows by means of double face sledge hammer of 3 kg, with a minimum swing of 250 mm. Cutters shall not show any signs of damage or deformation of the cutting edge on completion of the test.

6.2 Flaw Test — The cutters, when laid on a mild steel or lead block and struck 10 blows with engineers' ball pain hammer of 500 g, shall show no sign of cracking, fracture or distortion on completion of the test.

7. Preservation and Packing — The smith's anvil cutters shall be packed in accordance with the best prevalent trade practice, after giving a rust protection coating.

8. Sampling — Unless otherwise agreed to between the supplier and the purchaser, the procedure given in IS : 2500 (Part I)-1963 'Sampling inspection tables: Part I Inspection by attributes and by count of defects' shall be followed. The sampling plan for various characteristics shall be as given in 8.1 and 8.2.

8.1 For examining dimensions, manufacture, workmanship and finish, the sampling plans with inspection level III and acceptable quality level (AQL) 2.5 percent given in Tables 1 and 2 of IS : 2500 (Part I)-1963 shall be followed.

8.2 For hardness and tests, the sampling plans with inspection level I and acceptable quality level (AQL) 2.5 percent given in Tables 1 and 2 of IS : 2500 (Part I)-1963 shall be followed.

9. Marking — The smith's anvil cutter shall be marked with the nominal mass and the manufacturer's name, initials or recognized trade-mark.

9.1 ISI Certification Marking — Details available with the Indian Standards Institution, New Delhi 110001.

EXPLANATORY NOTE

While preparing this standard, assistance has been derived from the specification IND/GS/1245(b) 'Cutters anvil' issued by the Chief Inspectorate of General Stores, Kanpur.